

Southwark Foundry and Machine Company,

ENGINEERS AND MACHINISTS,

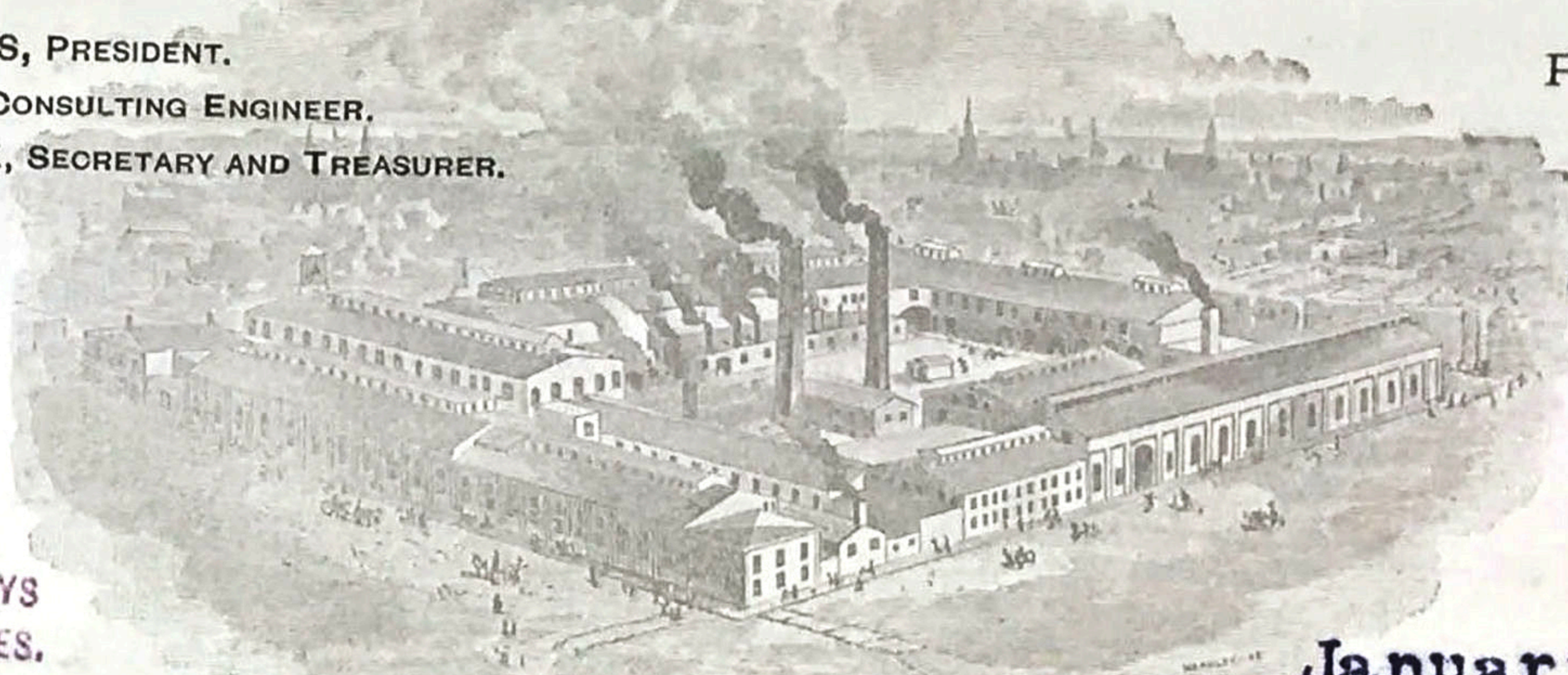
WASHINGTON AVENUE AND FIFTH STREET,

Philadelphia, Penn'a.

ROBERT C. CORNELIUS, PRESIDENT.

JOSEPH L. FERRELL, CONSULTING ENGINEER.

GEORGE A. BOSTWICK, SECRETARY AND TREASURER.



NOT RESPONSIBLE FOR DELAYS
IN CONSEQUENCE OF STRIKES.

January 15th. 1887.

Hon. Daniel M. Fox,
Supt. United States Mint,
Philada., Pa.

Dear Sir.

We are not prepared to bid according to specifications, but will agree to furnish on foundations prepared by you, at the U.S. Mint, Philada., two Porter-Allen Engines having cylinders, 14 1-2 inches diameter by 24 inches stroke, to make 200 revolutions per minute, and with steam at 85 lbs. in cylinder, cutting off at one fourth the stroke at that number of revolutions, to develop 160 horse power each, for the sum of Seventy-seven Hundred (7700.00) Dollars.

The price above named covers the engines complete between the steam starting valve and the exhaust nozzles, both inclusive; it includes also all necessary lubricators and wrenches, drawings of foundations, and templet by which to set the foundation bolts.

The inlet for steam is 6 inches, the exhaust outlet 7 inches; pulley 50 inches diam., with rim weighing 3300 lbs.

Sheet No. 2 to Hon. D.M. Fox from S.F. & M. Co., Jany. 14th, 1887

The floor space required for each of the engines we offer you, is 15 ft. 6 ins. in length and 9 ft. in width, but if placed to run together as per your plan, the width of both will be within 16 ft., the space allowed.

We desire to call your attention to two Porter-Allen Engines of the same dimensions as above, which we furnished the U.S. Post Office in this city.

These engines, under tests made by Prof. W.D. Marks, reported by him in an article on "Cheapest point of cut-off" published in the Journal of the Franklin Institute, of June 1884, were using at the time of the test, 18.86 lbs. of steam per horse power per hour, as shown by the indicator.

Assuming 10 lbs. of water evaporated per pound of coal per hour, the fuel used by these engines was 1.89 lbs. of coal per horse power per hour.

As the boilers for which you ask bids are to evaporate 11 lbs., we may assume, under these conditions, the fuel consumed as 1.72 lbs. coal per horse power per hour.

Enclosed find blue print of card taken from one of the Post Office Engines on Jany. 28th. 1885.

We have a large number of Porter-Allen Engines in use with the most satisfactory results.

We will, if favored with the order, furnish best workmanship and material.

Very Respectfully,

Robert C. Cornelius
President.

NARA RG104, Entry 1, Box 143

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